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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/919,706	08/01/2001	Kenichi Nanpei	1232-4747	5403
27123	7590	01/10/2008		
MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101			EXAMINER HUNTSINGER, PETER K	
			ART UNIT	PAPER NUMBER
			2625	
			NOTIFICATION DATE	DELIVERY MODE
			01/10/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOPatentCommunications@Morganfinnegan.com
Shopkins@Morganfinnegan.com
jmedina@Morganfinnegan.com

Office Action Summary	Application No. 09/919,706	Applicant(s) NANPEI, KENICHI	
	Examiner Peter K. Huntsinger	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,4-10,13-18 and 21-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,4-10,13-18 and 21-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/30/01 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 4-10, 13-18 and 21-28 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

3. Claims 1, 10, 18 and 26 are objected to because of the following informalities: In claim 1, replace line 15 with "sensing unit is initialized to the a state identical to the a state at the time when the apparatus is". Claims 10, 18 and 26 contain similar corrections. Appropriate correction is required.

4. Claims 6, 7, 14, 15, 22 and 23 are objected to because of the following informalities: In claim 6, line 2, replace "any abnormality" with "unplugging". Claims 7, 14, 15, 22 and 23 contain similar corrections. Appropriate correction is required.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1, ^{4-5, 7-10, 13, 15-18, 21 and 23-28} are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuga '338, and further in view of Yamamoto '645 and well known prior art.

Referring to **claim 1**, Kuga '338 discloses an image reading apparatus (scanner 2 of Fig. 3) which operates with power supplied from an external power supply (inherent copy machine must be plugged in to receive power) under control of an external apparatus and which comprises an image sensing unit for reading an image, and an interface connected to the external apparatus through an interface cable (col. 8, lines 34-36, personal computer can be connected), the image reading apparatus comprising:

wherein at least one of an internal circuit and mechanical position of the image sensing unit is initialized to the state identical to the state at the time when the apparatus is powered on before or after the apparatus is set to the sleep state (col. 11, lines 25-29, after entering preheating (power-saving) mode, all display lamps turned off), and

wherein power from the external power supply is not provided to the image reading apparatus across the interface cable but is provided across a separate cable (inherent copy machine must be plugged in to receive power).

Kuga '338 does not disclose expressly detecting an unplugging of the interface cable.

Yamamoto '645 discloses a detector for detecting an unplugging of the interface cable on the basis of an electric potential of a predetermined position of the interface (col. 13, lines 45-57, disconnection of cable 7 detected when enable signal does not change to a low level); and

a controller for setting said apparatus in a sleep state with the apparatus being supplied with power from the external power supply (receives power from commercial power supply 121), in response to detection of any unplugging of the interface cable during an image reading process controlled by the external apparatus, until the communication with the external apparatus restarts (col. 13, lines 46-57, when disconnection of cable 7 is recognized, the apparatus changes to sleep mode).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to enter a sleep mode when a data cable is disconnected. The motivation for doing so would have been to reduce the device's power consumption.

Kuga '338 does not disclose expressly transferring an image signal read by the image sensing unit to the external apparatus.

Official Notice is taken that it is well known and obvious to transfer a scanned image signal to an external apparatus (See MPEP 2144.03). The motivation for doing so would have been to store the image on a computer for future use. Therefore, it would have been obvious to combine Yamamoto '645 and well known prior art with Kuga '338 to obtain the invention as specified in claim 1.

Referring to **claim 4**, Kuga '338 discloses wherein the image sensing unit comprises:

- a light source for irradiating a document with light (Exposure lamp 6 of Fig. 3);
- an image sensor for converting light reflected by a document irradiated with light from said light source into an electrical image signal (CCD sensor 11 of Fig. 3);
- a moving unit for moving a relative position between an image of the document and said image sensor (Scanner motor 166 of Fig. 3); and
- a setting unit for stopping power supply to at least one of said light source and said moving unit in the sleep state in accordance with a setup of said controller (col. 11, lines 25-29, after entering preheating (power-saving) mode, all display lamps turned off).

Referring to **claim 5**, Kuga '338 discloses an A/D converter for converting the image signal output from the image sensing unit into a digital signal (A/D convert of Fig. 3).

Official Notice is taken that it is well known and obvious to transfer the digital image signal converted by said A/D converter to the external apparatus (See MPEP 2144.03).

Referring to **claim 7**, Yamamoto '645 discloses wherein said detector detects any abnormality of the interface by detecting a change in a voltage-level of a data line included in the interface (col. 13, lines 45-57, disconnection of cable 7 detected when enable signal does not change to a low level).

Referring to **claim 8**, Yamamoto '645 discloses wherein the interface has a function of allowing to plug/unplug a cable without turning off a power supply of the external apparatus (col. 13, lines 45-57, disconnection of cable 7 detected when enable signal does not change to a low level).

Referring to **claim 9**, Kuga '338 discloses an interface cable but does not disclose expressly wherein the interface cable complies with USB or IEEE1394.

Official Notice is taken that it is well known and obvious to connect a peripheral device to a computer with a USB cable (See MPEP 2144.03). The motivation for doing so would have been utilize commonly available computer port to connect the devices. Therefore it would have been obvious to combine well known prior art with Kuga '338 and Yamamoto '645 to obtain the invention as specified in claim 9.

Referring to **claim 10**, see the rejection of claim 1 above.

Referring to **claim 13**, see the rejection of claim 5 above.

Referring to **claim 15**, see the rejection of claim 7 above.

Referring to **claim 16**, see the rejection of claim 8 above.

Referring to **claim 17**, see the rejection of claim 9 above.

Referring to **claim 18**, see the rejection of claim 1 above.

Referring to **claim 21**, see the rejection of claim 5 above.

Referring to **claim 23**, see the rejection of claim 7 above.

Referring to **claim 24**, see the rejection of claim 8 above.

Referring to **claim 25**, see the rejection of claim 9 above.

Referring to **claim 26**, see the rejection of claim 1 above.

Referring to **claim 27**, see the rejection of claim 8 above.

Referring to **claim 28**, see the rejection of claim 9 above.

7. Claims 6, 14, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kuga '338, Yamamoto '645 and well known prior art, as applied to claims 1, 10, and 22 above, and further in view of Masuda '585.

Referring to **claim 6**, Yamamoto '645 discloses detecting unplugging of the interface but does not disclose expressly detecting a change in potential of a power supply line.

Masuda '585 discloses wherein a detector detects any abnormality of the interface by detecting a change in potential of a power supply line included in the interface (S50 of Fig. 5B, col. 6-7, lines 65-68, 1-11).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to determining an unplugged connection by a change in a power supply line. The motivation for doing so would have been to check an abnormal condition of a power supply. Therefore, it would have been obvious to combine Masuda '585 with Kuga '338, Yamamoto '645, and well known prior art to obtain the invention as specified in claim 6.

Referring to **claim 14**, see the rejection of claim 6 above.

Referring to **claim 22**, see the rejection of claim 6 above.

Conclusion

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Art Unit: 2625

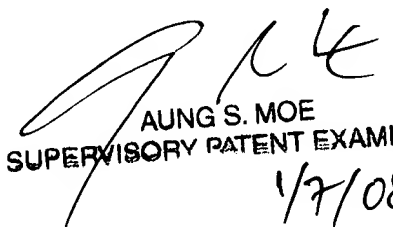
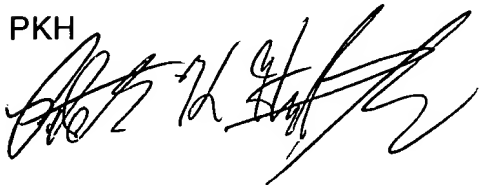
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter K. Huntsinger whose telephone number is (571)272-7435. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moe Aung can be reached on (571)272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PKH



AUNG S. MOE
SUPERVISORY PATENT EXAMINER
1/7/08